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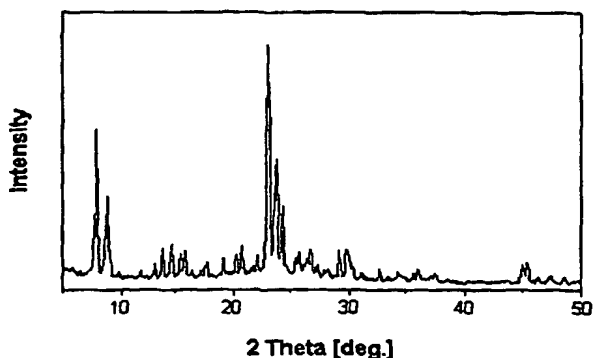
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(54) Title: METHOD OF PREPARING ZSM-5 USING VARIABLE TEMPERATURE WITHOUT ORGANIC TEMPLATE



(57) **Abstract:** Disclosed is a method of preparing ZSM-5 having substantially 100% crystallinity by using variable temperatures in the absence of an organic template, characterized in that a reaction mixture having a molar composition of M_2O/SiO_2 (M: alkali metal ion) of 0.07-0.14, H_2O/SiO_2 of 15-42 and SiO_2/Al_2O_3 of 20-100 is nucleated at relatively high temperatures (180-210°C) and then crystallized at relatively low temperatures (130-170°C), thus easily controlling a crystal size and a particle size distribution of the ZSM-5.